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pp. 45–51; and to (4) recent volumes of *Zeitschrift für mathematischen und naturwissenschaftlichen Unterricht,* which had a department, under the editorship of K. Hagge, devoted to the discussion of problems in geometrography.

For extension of the considerations to space, see Lemoine's papers: (1) "La géométrographie dans l'espace," *Comptes rendus de l'Academie des Sciences,* Paris, vol. 131, 1900; (2) "Géométrographie dans l'espace ou stéréométrographie," *Comptes rendus de l'Association Française pour l'Avancement des Sciences,* 1900.

Among English writings the following may be noted: (1) J. S. MACKAY, "The Geometrography of Euclid's Problems," *Proceedings of the Edinburgh Mathematical Society,* vol. 12, 1894, pp. 2–16; (2) J. L. COOLIDGE, *A Treatise on the Circle and the Sphere,* Oxford, Clarendon Press, 1916, pp. 166–179; (3) H. P. HUDSON, *Ruler and Compasses,* London, Longmans, 1916, pp. 112–117; (4) C. E. YOUNGMAN, "On Two Constructions for the Regular 17-Side," *Mathematical Questions and Solutions from " The Educational Times,"* new series, vol. 10, 1906, pp. 55–56; and (5) R. F. MUIRHEAD, "Constructions with Straight-edge and Dividers," *Mathematical Gazette,* London, 1905, vol. 3, pp. 209–211.

Other systems of measurement are described in A. GRÜTTNER, *Die Grundlagen der Geometrographie,* Leipzig, Quelle und Meyer, 1912; in K. ROHN und E. PAPPERITZ, *Lehrbuch der darstellenden Geometrie,* Band I, 4. Auflage, Leipzig, Veit, 1913, pp. 486–493 and 501–502; and in *Encyklopädie der mathematischen Wissenschaften,* Band III1, Heft 4, Leipzig, Teubner, 1910, pp. 528–531.

The issue of the MONTHLY for February, 1896, contained a portrait of Lemoine and a biographical sketch by D. E. Smith. Reference is made to the influence which he exerted in the realm of music through his celebrated soirées, "La Trompette." (*Cf.* L. AUGÉ DE LASSUS, *La Trompette. Un demi-siècle de musique de chambre.* Paris, Delagrave, 1911.)

NOTES AND NEWS.

EDITED BY D. A. ROTHROCK, Indiana University, Bloomington, Ind.

Mr. D. R. BELCHER has been appointed instructor in mathematics at Adelbert College, Western Reserve University.

At Syracuse University, Associate Professor F. F. DECKER has been promoted to a professorship of mathematics, and Dr. J. L. JONES has been promoted to an assistant professorship.

Following the death of President P. W. MCREYNOLDS, of Defiance College, Defiance, O., Professor A. G. CARIS, of the department of mathematics, was made acting president of the College.

At the University of Maine, Mr. M. F. JORDAN and Mr. Q. STAUFFER have been appointed instructors in mathematics; the department of mathematics has united with the military department in offering courses in navigation.

Large numbers of teachers of mathematics in secondary schools and colleges have enlisted in the military service since the opening of the present academic year. It has been the plan of the editors of the MONTHLY to record as many of these enlistments as possible, especially the members of the Association. The editor of the "Notes and News" columns of the MONTHLY welcomes all notices sent him concerning the military service of any member of the Association, or other mathematicians.

Mr. GILBERT THAYER, a charter member of the Association, has been commissioned first lieutenant in the aviation section of the Signal Officers' Reserve Corps, in California. At the University of Maine, Associate Professor L. J. REED has been granted leave of absence to serve as statistician to the War Trade Board in Washington. Dr. J. M. STETSON, instructor in mathematics at Adelbert College of Western Reserve University, has resigned to enter the national army. Dr. A. H. NORTON, professor of mathematics and vice-president of Elmira College, N. Y., and president of the Syracuse section of the Mathematics Teachers of the Middle States and Maryland, has been granted leave of absence by Elmira College and sailed for France in December to engage in Y. M. C. A. work. Professor W. MARSHALL, of Purdue University, is serving under the Food Administration as chief statistician of the International Sugar Committee with headquarters in New York City.

The following mathematical papers were presented at the October meeting of the Cambridge Philosophical Society: "The convergence of certain multiple series," by G. H. HARDY; "Bessel functions of large order," by G. N. WATSON; "A particular case of a theorem of Dirichlet;" "Ramanujan's empirical expansion of modular functions," by L. J. MORDELL; "Extension of Abel's theorem and its converses," by A. KIENAST.

Parts 3 and 4 of Vol. 16, *Proceedings of the London Mathematical Society*, recently issued, contain the following: "Bessel functions and Kapteyn series" (continued from part 2), by G. N. WATSON; "On non-absolutely convergent, not necessarily continuous, integrals" and "On multiple integration by parts and the second theorem of the mean," by W. H. YOUNG; "On the classification of the integrals of linear partial differential equations of the first order," by M. J. M. HILL; "A problem on Diophantine approximation," by H. T. J. NORTON; "A symmetrical relation between Legendre's functions with parameters $\cosh \alpha$, $\sinh \alpha$," by F. J. W. WHIPPLE; "On two theorems of combinatory analysis and some allied identities," by L. J. ROGERS. At the regular meeting of the London Mathematical Society held on November 1 under the presidency of Professor H. M. MACDONALD, the following papers were presented: "Tetrahedra in relation to spheres and quadrics," by J. H. GRACE; "The continuation of the hypergeometric series," by M. J. M. HILL; "Restricted Fourier series and the convergence of power series," by W. H. YOUNG; "Invariants and covariants of linear homogeneous differential equations," by E. B. STOUFFER; "The simultaneous system of two quaternary quadratic forms," by H. W. TURNBULL.

Among the multitude of scientific papers presented at the meetings of the Paris Academy of Science during the past six months are the following on mathematical subjects: "Surfaces such that the Laplace equation of the network formed by the lines of curvature is integrable," by C. GUICHARD; "A generalization of Taylor's series," by G. D. BIRKHOFF; "Binary indeterminate conjugate forms remaining invariant under a group of linear substitutions," by G. JULIA; "Fourier-Bessel transcendentals with several variables," by M. AKIMOFF; "The convergence of conjugate trigonometrical series," by J. PRIWALOFF; "The development in a continued fraction of a quadratic irrational," by M. AMSLER; "The measurement of linear ensembles," by M. LEAU; "The continued fraction of Stephen Smith" and "Some properties of binary indefinite quadratic forms," by G. HUMBERT; "The classification of the transcendental points of the inverse of integral or meromorphic functions," by G. REMOUNDOS; "Orthogonal surfaces," by H. DUPORT; "The pisiform surface," by P. HUMBERT; "The notion of neighborhood in abstract ensembles," by M. FRÉCHET; "A new method in the numerical evaluation of the coefficients of a series," by M. PETROVITCH; "A new method in the summation of trigonometrical series," by M. ANGELESCO; "The theory of trigonometrical series," by W. H. YOUNG; "Abelian functions," by G. SCORZA; "The integration of certain systems of differential equations," by E. GOURSAT; "The triple cyclic systems of Steiner," by S. BAYS; "A functional equation and spherical unicursal curves," by W. DETAUNENBERG.

The volumes of the *Proceedings of the Edinburgh Mathematical Society* are issued annually in two parts, the first in May and the second in November. The recently completed volume 35, issued by the aid of a grant from the Carnegie Trustees, contains the following papers extending over 106 pages: By H. DATTA, (1) "On the theory of continued fractions"; (2) "On the failure of Heilemann's theorem"; by L. R. FORD, (1) "On a class of continued fractions"; (2) "A geometrical proof of a theorem of Hurwitz"; (3) "The effect of a rise in prices upon the amount of small money used"; by G. B. JEFFERY, "Transformations of axes for Whittaker's solution of Laplace's equation"; by W. P. MILNE, (1) "The apolar locus of two tetrads of points"; (2) "The co-apolars of a cubic curve"; by G. D. TAYLOR, "Geometrical illustrations of cyclant substitutions"; by E. T. WHITTAKER, "On the latent roots of compound determinants and Brill's determinants"; by A. W. YOUNG, "On the computation of a Lagrangian interpolation."

In addition to the *Proceedings* the Edinburgh Mathematical Society has published also 21 numbers of *Mathematical Notes, a Review of Elementary Mathematics and Science.* The last number (pages 239–254) was published in December, 1916.

Professor F. R. MOULTON, University of Chicago, is Secretary of Section A (Mathematics and Astronomy) of the American Association for the Advancement of Science. His absence from the holiday meetings at Chicago was due to his official duties at Pittsburgh.

The twenty-fourth annual meeting of the American Mathematical Society was held in New York on December 27–28, 1917. There were eleven papers on the printed program, the authors representing seven colleges and universities.

The ninth regular meeting of the American Mathematical Society at Chicago, being the fortieth meeting of the Chicago Section, was held at the University of Chicago on December 28–29, 1917, in conjunction with the third annual meeting of the Mathematical Association of America. There were eighteen papers on the printed program, the authors representing nine colleges and universities. Two additional papers were also read.

Former Captain STUART C. GODFREY, Corps of Engineers, West Point, New York, is now Major Godfrey and is located at Fort Leavenworth, Kan.

A booklet on the "History of Limits and Fluxions in England during the Eighteenth Century," by Professor FLORIAN CAJORI, is now in process of publication by the Oxford University Press, having been delayed since 1915 by the exigencies of the war.

A series of public addresses in the state of Montana on the nations concerned in the great war was given during the Red Cross campaign by members of the faculty of the University of Montana, and the proceeds were devoted to the Red Cross. The address on Scandinavia was given by Professor N. J. LENNES, head of the department of mathematics.

The Central Association of Science and Mathematics Teachers was organized in Chicago in 1902. The membership has steadily grown from 324 in 1908 to 973 in 1917. The last annual meeting was held in Columbus, Ohio. An important feature of the program was the report of the Committee on Mathematical Requirements by the chairman, Mr. J. A. FOBERG, of Crane Junior College, Chicago. Mr. Foberg is the representative of the Central Association on the National Committee of the Mathematical Association of America.

The secretary has had specific inquiries for the following back numbers of the AMERICAN MATHEMATICAL MONTHLY. It will confer a favor upon various subscribers who are seeking to complete their files of this journal if any who have these issues for sale will inform the secretary of the ASSOCIATION, giving the price desired, including the necessary postage. The secretary's office will be glad to effect the exchange in such cases if the price is satisfactory to the subscribers. (The numbers called for by the University of Wisconsin in the last issue of the MONTHLY have been supplied.)

Vol. I, 1894—Jan., Feb., Mar., June, and July.
Vol. II, 1895—June and Nov.
Vol. III, 1896 (at least all issues except Jan., Feb., and June).
Vol. IV, 1897—Jan., Feb., Apr., June, and July.
Vol. V, 1898—March and May.
Vol. VI, 1899—May, September, and November.
Vol. VII, 1900—April and May.

Vol. VIII, 1901—November.
Vol. IX, 1902—May and June–July.
Vol. XI, 1909—April.
Vol. XIV, 1907—Jan. and Oct.
Vol. XIX, 1912—June and July.
Vol. XX, 1913—Oct.

Professor W. D. MacMillan, who spent the autumn in Texas, has now returned to his work at the University of Chicago in the department of astronomy. Professors E. J. Wilczynski and H. E. Slaught are out of residence during the winter quarter, and Professor L. E. Dickson has returned from his sojourn at the University of California.

NOTES ON THE THIRD ANNUAL MEETING OF THE ASSOCIATION.

By H. E. SLAUGHT, University of Chicago.

The attendance at the third annual meeting was most gratifying, in view of war conditions. The total number present at the various sessions was 119, including 93 members. Members from a great distance were warmly welcomed, including Professors Cajori from Colorado, Dodd and Ettlinger from Texas, Huntington, Phillips, and Ransom from Massachusetts, Archibald from Rhode Island, and Kingston from Winnipeg.

The joint dinner on Thursday evening with the Chicago Section of the Society was attended by seventy-three persons and proved most enjoyable. The Quadrangle Club is admirably adapted for such occasions, providing ample room and complete seclusion, with full opportunity for social intercourse both before and after the dinner and, indeed, throughout the progress of the meetings. President Cajori presided and short talks were given by members representing various parts of the country. A matter of deep interest was the Secretary's roll-call of mathematicians in the national service, a manifestly incomplete list, which, however, was supplemented by numerous additions on the spot, and which it is desired to make as complete as possible for early publication in the Monthly.

As was the case at the New York meeting a year ago, there was much sustained enthusiasm over the election of officers which was closed at the business meeting late Friday afternoon. The contest was very close in some cases, especially in connection with the Council. The detailed figures will be given in the Secretary's official report. The result was as follows: E. V. Huntington, President; D. N. Lehmer and J. W. Young, Vice-Presidents; W. D. Cairns, Secretary-Treasurer; Florian Cajori, Elizabeth B. Cowley, G. A. Miller, and E. J. Wilczynski, members of the Council to serve till January 1920. The Secretary's figures will show that the total vote was not as large as one would suppose it should be. Probably